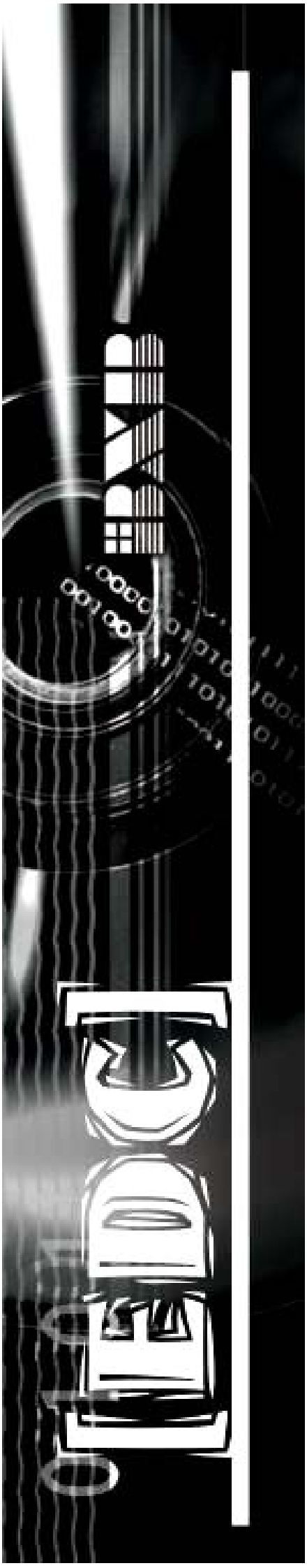

EDC1000 Series

English User manual

Version: November 14, 2007

Catalogue

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Foreword

This EDC1000 series, the latest and easiest digital conference system with superb performance and elegant design, can be used for various conferencing.

This conferencing system has the most updated built-in digital module with 10 chairmen microphones and 128 delegate microphone (can be increased according to practical requirement), providing the unique features of front sound mixing module, back amplified module, sound effect treatment amplified module to meet your requirement under any circumstance.

The system will enable self-detection function when the power is on, which can automatically detect if the function of all the Chairman/ delegate units are normal, facilitating timely function detection.

High reliability is the utmost importance element in the development of this conference system. Each conference main control unit and its fittings are all going through careful assembly and strict test in our ISO 9001 factory. The excellent performance, high reliability and reasonable price make it the indispensable tools of your conference.

Product Features

Main control unit of the conference system

1. Digital control capability: Chairman's unit: 10 pcs, Delegate's unit: 128pcs.
2. The setting of the ID of the conference unit: adopts 7-bit dip switch.
3. It has one LCD display and 3 setting buttons which can be used to set and change the working mode of the microphone.
4. Built-in front sound mixer amplifier module.
5. Built-in power amplifier module.

Chairman unit

1. Desktop and built-in types are available.
2. Conference control functions such as TALK (On/Off) and CONTROL（equals to the control button on the console）are available.
3. It can be placed at any position within the system.
4. Maximum 10 chairmen microphone can be installed at the same time.

Delegate unit

1. Desktop, built-in and hand-hold types are available.
2. Speech control function such as TALK (On/Off) and REQUEST are available.
3. 128 delegate microphones can be installed at the same time.

Safety Precautions

1. Please read this manual carefully before installing and applying this unit.
2. Please keep this manual appropriately.
3. Please observe the instruction and warning in this manual.
4. Please do not use accessories not recommended by dealers.
5. Please use the attached spare parts accessories provided by the factory only, the factory will not be responsible for any damage due to false fixing way.
6. Make sure that the power plug are fixed appropriately and safely.
7. Please do not use too many extention cable to avoid fire hazard and short circuit.
8. Please do not insert any article into the unit or spray any liquid on it to avoid short circuit.
9. If one of the following happen, please contact the maintenance technician:

   A• power cable or plug is damaged.

   B• water gets into the unit.

   C• cannot be operated under normal instruction.

   D• the unit is dropped onto the ground and damage the case.

   E• If only one function is available, please contact the maintenance technician.

10. When outdoors equipment or cable is connected into this unit, the grounding of cable system must be reliable to avoid lightening attack.
11. Please take care when installing the main control unit and its surrounding facilities.

    Please take care when installing the main control unit and its surrounding facilities. Avoid strike, fierce swing, which may damage the main conference unit and its surrounding facilities.

12. Please do not disassemble the main control unit and its surrounding facilities.

    A. There are high voltage and sensitive electronic circuits inside the unit. In order to avoid electric shock, please do not disassemble the machine. If machine uncover is necessary, please seek assistant from qualified technicians.

    B. When the dealers replacing spare parts, the specification of replacing spare parts should be acknowledged by manufacturer. Unauthorized spare parts may lead to fire hazard caused by short circuit.

13. Please do not block the heat radiating holes on the case

    There is heat sink inside this product. If the heat radiating holes are blocked, the resulting overheating of the main unit may lead to mal-function.

14. Please do not use or operate camera in environment exceeding the specified temperature, humidity and power grade

    Use this conference main control unit in environment with the temperature of 0°C ~ 40°C (32°F ~ 104°F) and humidity lower than 90%.

15. Please do not expose the conference main control unit to rain, and humid air, and do not use it in humid environment.

    Please place it at dry place. Humid and water evaporation may lead to the damage of spare parts inside. Appropriate cover is necessary when placing it outdoor.

16. Please do not clean the conference main unit and its surrounding facilities with strong or power detergent

If the surface of the unit is dirty, please do not clean it with liquid or spraying detergent, while slightly wet cloth should be used.

17. Please do not switch on and off the conference main control unit abruptly

No matter the unit is running or stop, avoid switch it on and off abruptly to ensure the sensitive electronic circuit inside not being damaged by abrupt power wave.

18. Note: When the printed circuit board was going through electric static treatment, correct ESD safety precaution and grounding should be guaranteed.

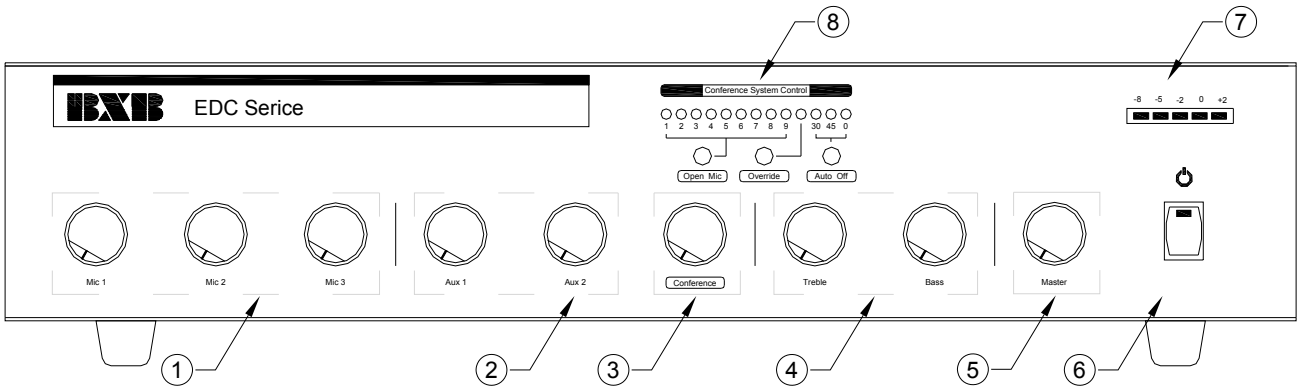
19. Note: Before connecting the unit to the power supply, please adjust the power input according to the local power specification. Otherwise, unit damage may ensue. The adjusting way can be seen at Installation and Setting of System.

Warning: Only qualified maintenance staff is allowed to uncover the case of the unit. There is nothing inside that can be repaired by certificated technician. Before uncovering the unit, power should be cut off and no power supply is allowed before the unit is completely covered.

EDC 1000 series

Operation and Function Description

Introduction to the function of front panel of main unit



1. ➝ MIC 1~3: volume control knob.
2. ➝ AUX1: volume control knob controls the volume of external input sound and adjusts the volume of chairman priority warning.

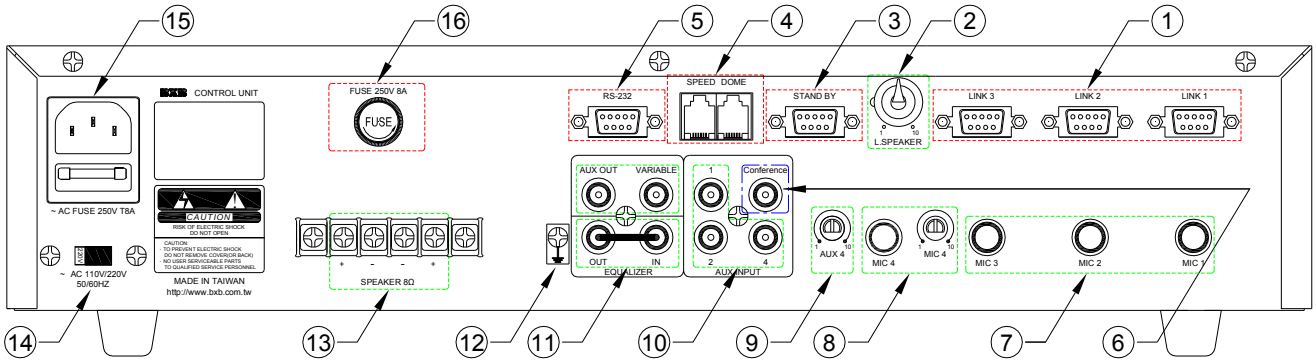
   AUX2: volume control knob controls the volume of external input sound.
3. ➝ Conference: conference microphone output volume control.
4. ➝ Timbre adjusting knob: TREBLE volume control, BASS volume control.
5. ➝ MASTER volume control
6. ➝ POWER: master volume control
7. ➝ Volume output increase LED indication lamp.
8. ➝ Control mode and LED display.

   Open Mic button：Adjust numbers of ON microphone from 1 up to 9 microphones. All lights on (1~9) means open system (no limit). When 1~9 LED all off means Chairman only mode. All delegates cannot talk.

   Override button: Press override button then “0” LED will turn on to execute this function.

   Auto Off button: Microphone auto cutoff duration. If no sound input for 30 or 45 seconds, it will auto cut off. “0” means will not auto cutoff unless press ON/OFF button.

Function of rear plate of main control unit



1. ➝ LINK 1 ~ 3: Connect to conference microphone unit port. One link can connect up to 25 units.
2. ➝ L.SPEAKER: Master volume-control of built-in loudspeaker of chairmen/delegate unit.
3. ➝ STAND BY PORT
4. ➝ SPEED DOME RS-485 port×2（RJ-11）（**standby**）
5. ➝ RS-232 port（**standby**）
6. ➝ Conference Out
7. ➝ MIC 1~3 MIC 1~3: dynamic microphone input terminal（6.3Ø）。
8. ➝ MIC 4: dynamic microphone input terminal（6.3Ø） and volume control knob.
9. ➝ AUX 4: volume control knob control the volume of external input sound.
10. ➝ AUX INPUT: there are three external sound input terminals.
11. ➝Conference microphone sound output terminal and external sound treatment auxiliary terminal:

    AUX OUT: direct sound output terminal controls the output volume but not controlled by master volume adjusting knob（MASTER）.

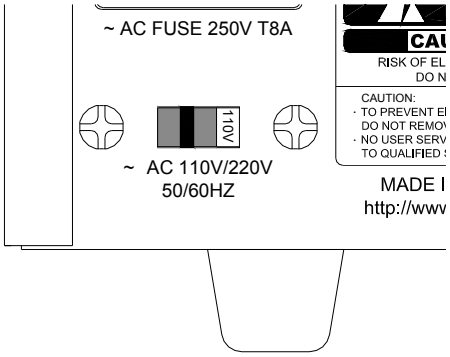
    VARLABLE: direct sound output terminal controls the output volume and can controlled by master volume adjusting knob（MASTER）.

    EQUALIZER: external sound treatment auxiliary terminal can connect timbre facilities such as the external equalizer, dynamic expander. The factory setting is IN/OUT short circuit direct output.
12. ➝ SPEAKER 8Ω built-in 40W×2 amplifier, low resistance 8Ω speaker signal output terminal.
13. ➝ AC 110V/220V 50/60HZ input voltage selection switch.
14. ➝ AC 110V/220V power input socket. Equip AC overload protection fuse, one protection fuse and one stand by fuse（AC 8A）under the socket.
15. ➝ Conference main control unit DC power fuse seat（DC 8A）
16. ➝ 250V 8A Fuse

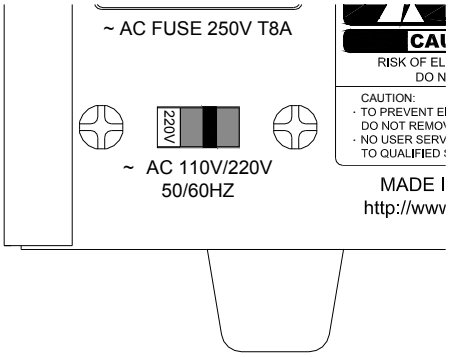
Installation and Setting of the System

1. Basic installation instruction

1.1 Adjust AC power input



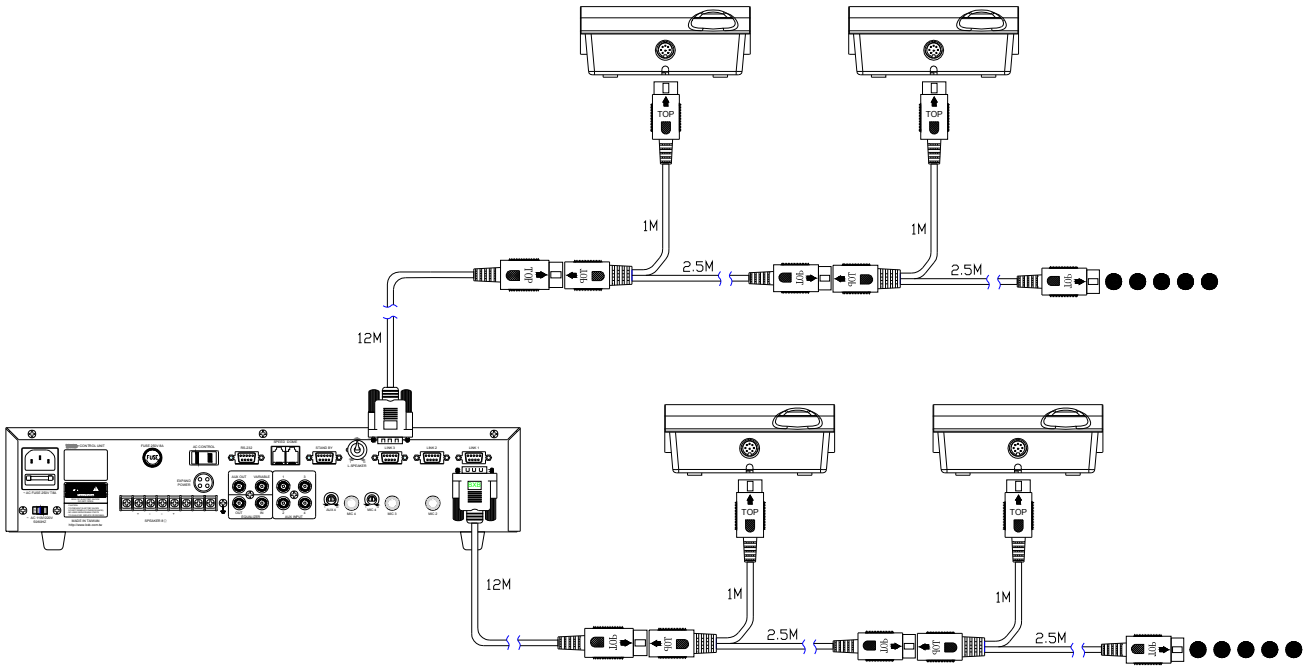
AC 110V/60Hz



AC 220V/50Hz

Caution: you must adjust to correct input voltage. Otherwise, it may seriously damage the main unit.

1.2 Basic connection of conference control main unit to chairman/delegate microphones.



1.2.1 There are three group of microphone port on the main control unit, which can be connected at random without any priority.

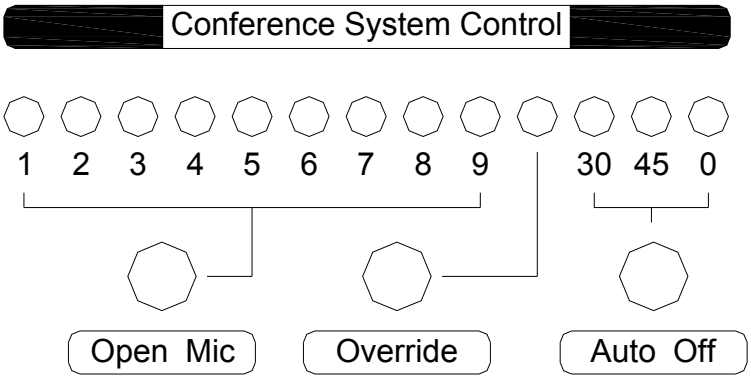
1.2.2 Chairman/delegate unit is equipped with hidden connecting terminal. When conducting connection, BXB advanced Y shape fast cable can be adopted to form hidden wiring with simple and beauty effect.

1.2.3 The chairman microphone can be placed at any place without order limitation.

1.2.4 When disconnecting the conference unit, please cut off the power supply first.

2. Power On

2.1 After making sure all the above adjustment and control wiring is completed and plug in the AC power supply to power on the system. The LED panel on Main control unit will show the previous conference setting.

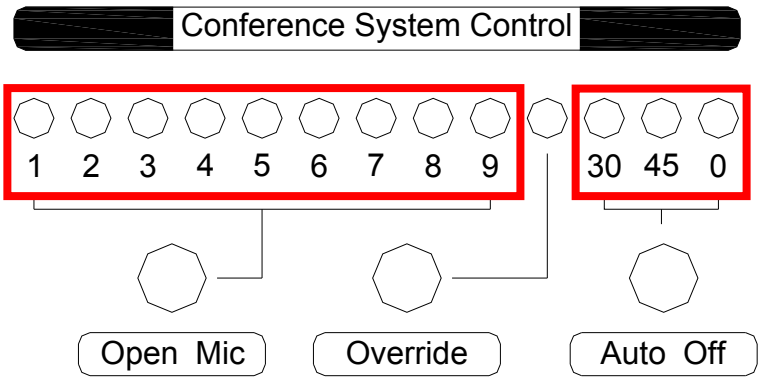


2.2 When main control unit is ON, this conference system will execute microphone connection test. At this time, the red LED of microphone will be constantly on, while the red LED of microphone with wrong connection will flash after 5 seconds, which indicate failure of unit connection.

2.3 In this case, the power of main control unit should be switched off, and check if the wiring of the microphone is wrong before the power is switched on again. If the red LED of the microphone is constantly on for more than 5 seconds, and the connection of the microphone is normal.

2.4 At this time, press the talk button of the chairman unit or any delegate unit once, can the red LED of microphone be cleared, or wait for 30 seconds until the test mode of the system is releasing, can the conference begins.

3. LED display and operation



3.1 Open Mic

3.1.1 1~9 speaking mode：Press “Oper Mic” button to select 1~9 delegates can speak at the same time.

3.1.2 Open system: When 1~9 LED all light up means all open. Every delegate can talk with no restriction.

3.1.3 Chairman only mode：When 1~9 LED all off means Chairman only mode. All delegates cannot talk.

3.2 Override

3.2.1 Override mode：If the open number of delegate microphone is one, it means only one delegate microphone of the conference system can be enabled at a time. When the **”TALK”** button of the second conference microphone is pressed, the previous talking microphone will be switched off automatically. If the open number of delegate microphone is three, it means the starting of the fourth microphone will disable the first one. The starting of the fifth microphone will disable the second one. In this case, only three delegate microphones are allowed to speak at a time. Chairman is not restricted to this limit.

3.3 Auto Off（Voice control- Auto off）

3.3.1 Voice control：When delegate’s unit has no signal for 30/45 seconds, microphone will auto off. Chairman is not restricted.

3.3.2 Select time

When 30 LED light up: When delegate’s unit has no signal for 30 seconds, microphone will auto cutoff.

When 45 LED light up: When delegate’s unit has no signal for 45 seconds, microphone will auto cutoff.

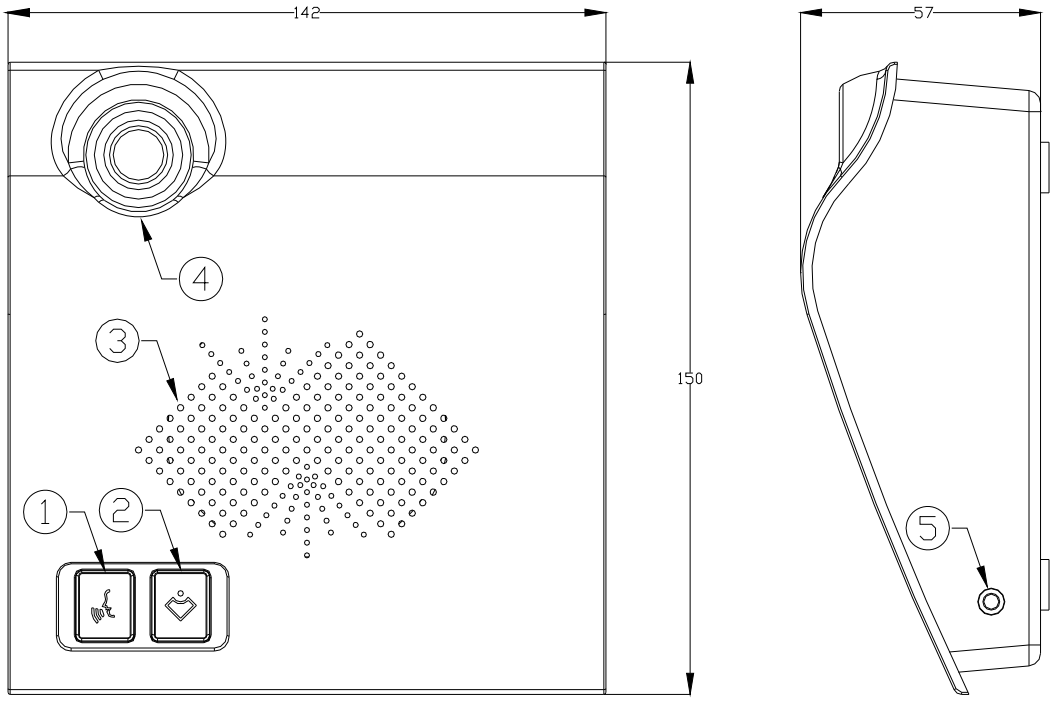
When 0 LED light up: All open until press “Talk” button. Cancel voice control function.

3.4 Saving setting

3.4.1 After setting the above information, save it in Main control unit for next time conference. Even after turn off or power cut will not need to reset again.

Microphone shape and operation

Table-top chairman unit EDC 1011：



① → Talk button（with back-lighted indication lamp）

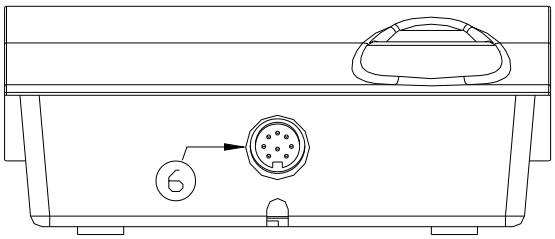
② → Chairman control button（with back-lighted indication lamp）

③ → Build-in speaker

④ → Microphone plug

⑤ → Earphone output plug

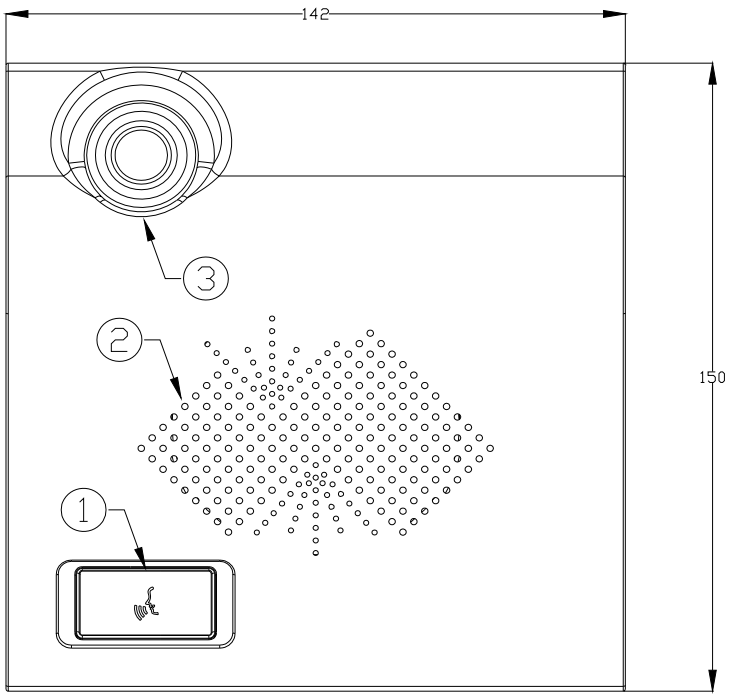
⑥ → Wire plug

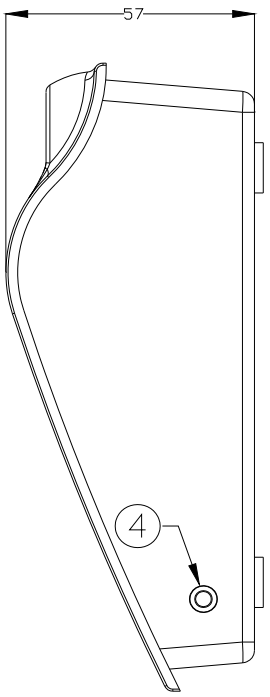


Function explanations：

1. Press “Talk” button to start talking. The “Talk” button is with back-lighted indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Press “Control” button to clear and turn off all delegates. Delegate can press “Talk” button again to continue talking.
4. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
5. There is a simple configuration slot for connector in the stand. Only one hole on the rear panel, which will enable wiring easy to install and maintain. This design will make sure appearance of the conference hall nice and neat.

Table-top Delegate's unit EDC 1012：





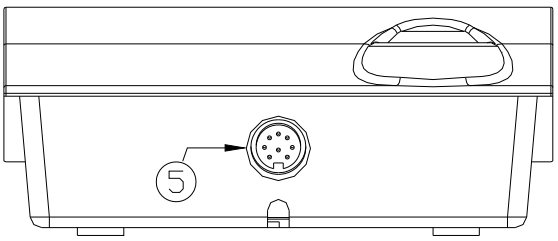
① → Talk button（with back-lighted indication lamp）

② → Build-in speaker

③ → Microphone plug（DIN TYPE）。

④ → Earphone output plug

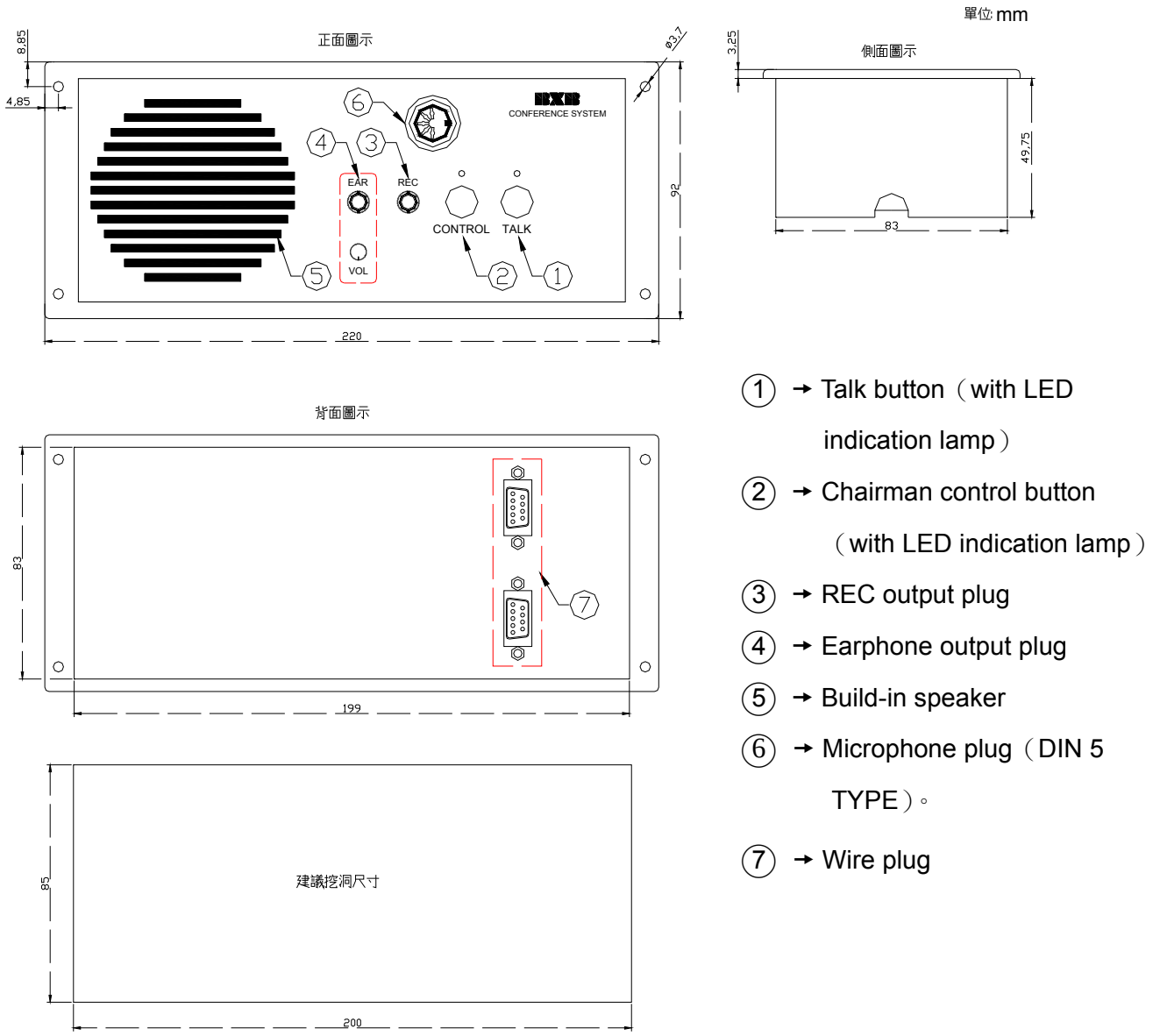
⑤ → Wire plug



Function explanations：

1. Press “Talk” button to start talking. The “Talk” button is with back-lighted indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
4. There is a simple configuration slot for connector in the stand. Only one hole on the rear panel, which will enable wiring easy to install and maintain. This design will make sure appearance of the conference hall nice and neat.

Flush-mounted Chairman's unit EDC 1021：



① → Talk button（with LED indication lamp）

② → Chairman control button（with LED indication lamp）

③ → REC output plug

④ → Earphone output plug

⑤ → Build-in speaker

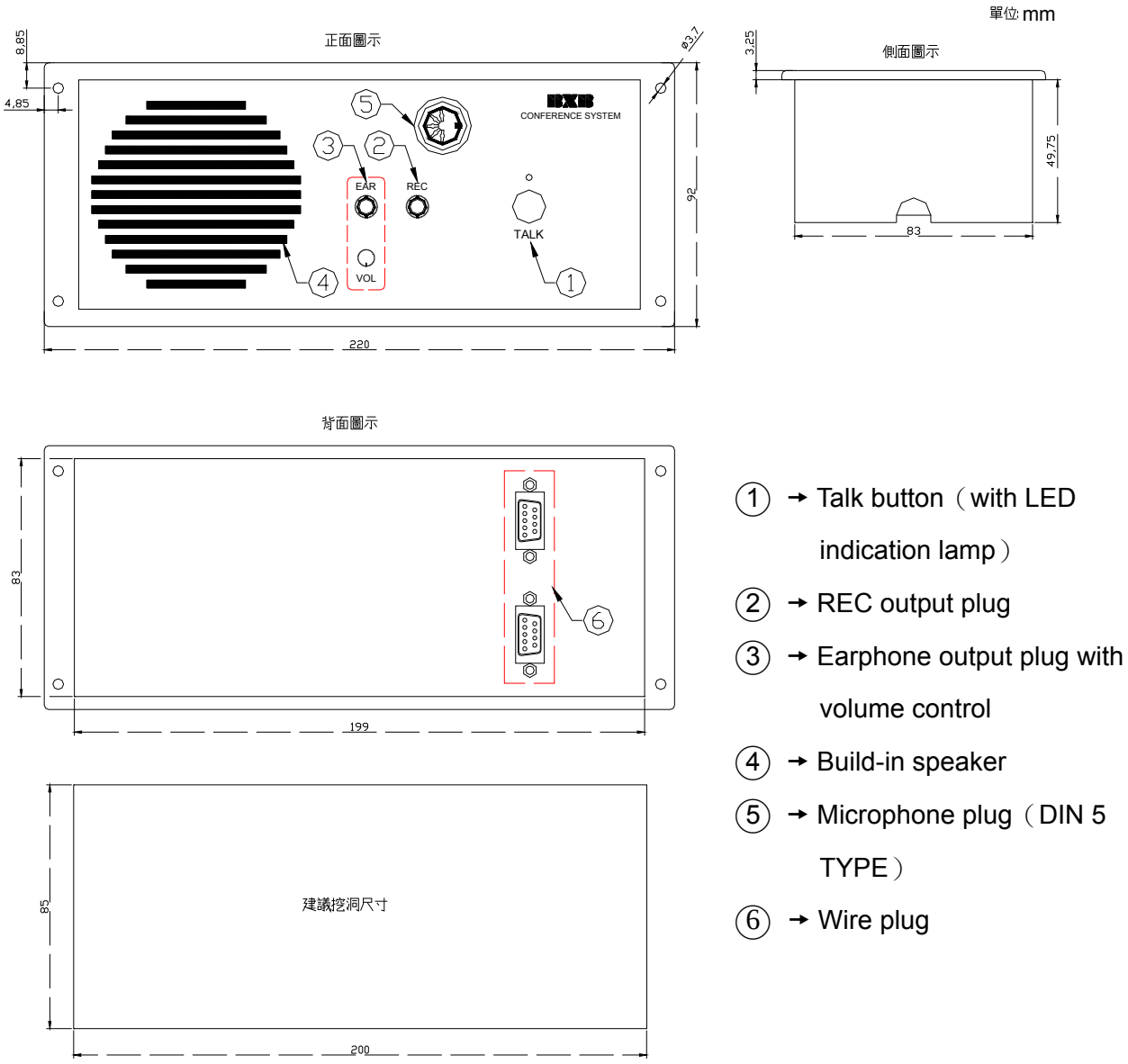
⑥ → Microphone plug（DIN 5 TYPE）。

⑦ → Wire plug

Function explanations：

1. Press "Talk" button to start talking. The "Talk" button is with LED indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Press "Control" button to clear and turn off all delegates. Delegate can press "Talk" button again to continue talking.
4. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
5. Hidden wiring is adopted. There is two hidden DB9 configuration slot for connector in the stand. When install, just plug one by one (daisy-chain). Holes can be drilled under the seat when installed, which will enable hidden wiring and maintain the appearance of the conference hall nice and neat.

Flush-mounted Delegate's unit EDC 1022：



① → Talk button（with LED indication lamp）

② → REC output plug

③ → Earphone output plug with volume control

④ → Build-in speaker

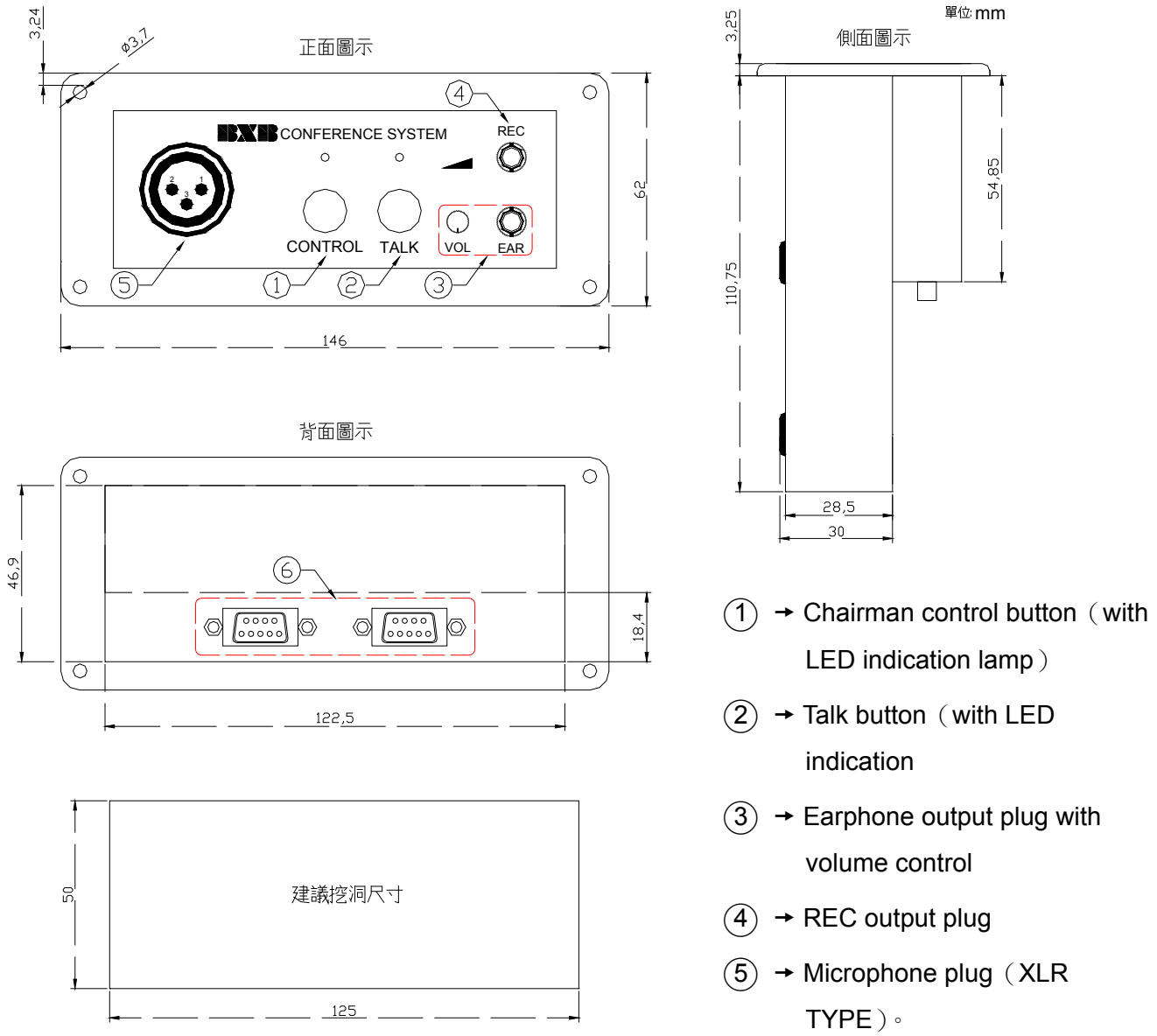
⑤ → Microphone plug（DIN 5 TYPE）

⑥ → Wire plug

Function explanations:

1. Press "Talk" button to start talking. The "Talk" button is with LED indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
4. Hidden wiring is adopted. There is two hidden DB9 configuration slot for connector in the stand. When install, just plug one by one (daisy-chain). Holes can be drilled under the seat when installed, which will enable hidden wiring and maintain the appearance of the conference hall nice and neat.

Flush-mounted Chairman's unit EDC 1023：



① → Chairman control button（with LED indication lamp）

② → Talk button（with LED indication

③ → Earphone output plug with volume control

④ → REC output plug

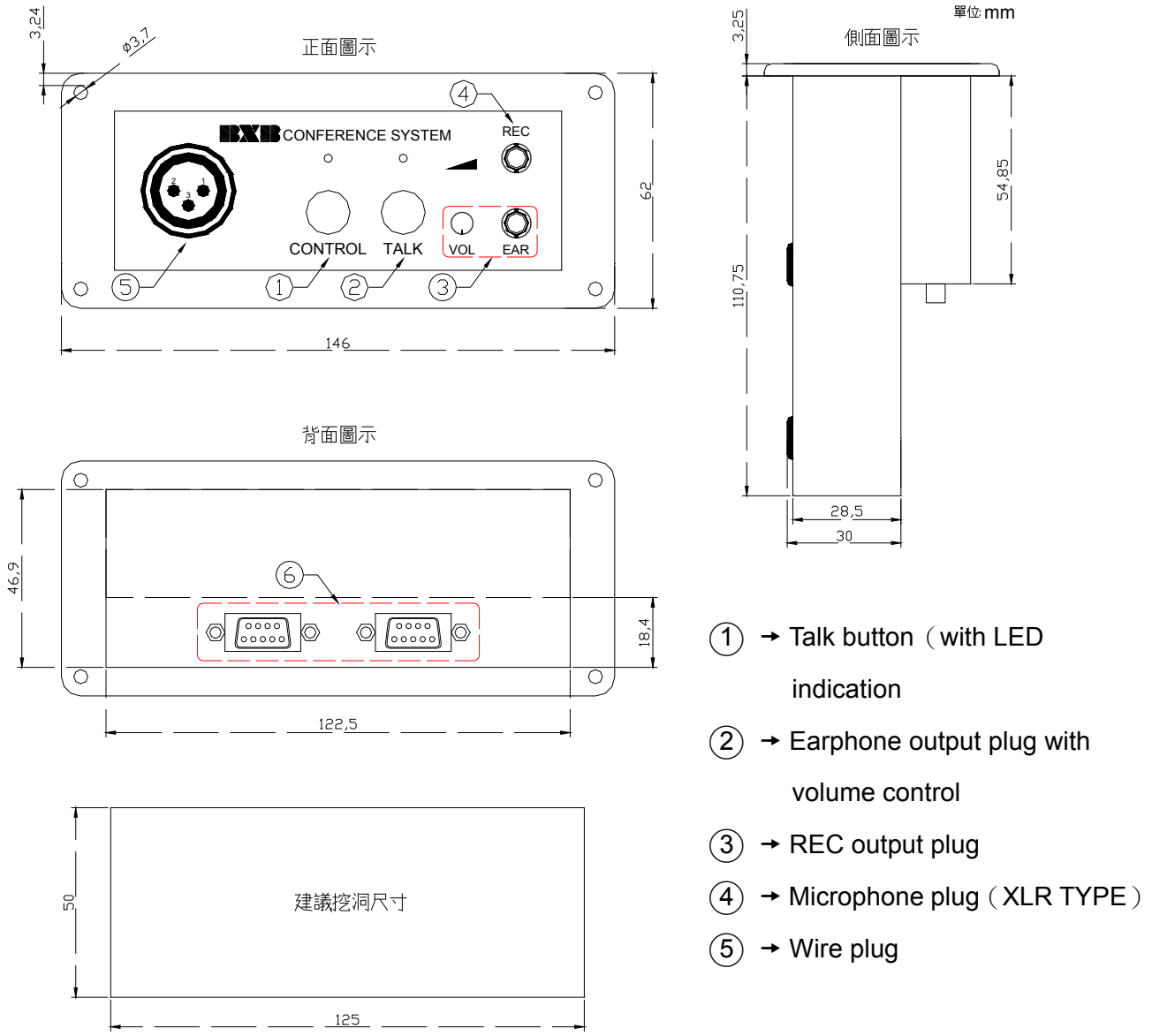
⑤ → Microphone plug（XLR TYPE）。

⑥ → Wire plug

Function explanations：

1. Press “Talk” button to start talking. The “Talk” button is with LED indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Press “Control” button to clear and turn off all delegates. Delegate can press “Talk” button again to continue talking.
4. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
5. Hidden wiring is adopted. There is two hidden DB9 configuration slot for connector in the stand. When install, just plug one by one (daisy-chain). Holes can be drilled under the seat when installed, which will enable hidden wiring and maintain the appearance of the conference hall nice and neat.

Flush-mounted Delegate's unit EDC 1024：



① → Talk button（with LED indication

② → Earphone output plug with volume control

③ → REC output plug

④ → Microphone plug（XLR TYPE）

⑤ → Wire plug

Function explanations:

1. Press “Talk” button to start talking. The “Talk” button is with LED indication lamp and Microphone with red LED to show its ON/OFF.
2. When turn on the conference unit, build-in speaker will be silent to prevent echo.
3. Microphone and stand are design separated. It is easier for installation, repair, maintained, transportation, pack and storage.
4. Hidden wiring is adopted. There is two hidden DB9 configuration slot for connector in the stand. When install, just plug one by one (daisy-chain). Holes can be drilled under the seat when installed, which will enable hidden wiring and maintain the appearance of the conference hall nice and neat.

EDC1050 Main control unit specifications:

TECHNICAL DATA

◎ Frequency response：100HZ~16KHZ
◎ LINE IN：-4dB~+6dB≧10KΩ（balanced）
◎ LINE OUT：-4dB~+12dB≧200Ω（balanced）
◎ Sensitivity：-60dB
◎ Total Harmonic distortion：≦0.5%
◎ S/N：90dB
◎ Conference microphone connection：D type express port x 3 sets
◎ Mixer
Mic input：4 sets 600Ω/6mV/-22dB
Line input：4 sets 20KΩ/300mV/-10dB
◎ Power amplifier：40W(8Ω)×2
◎ 5 LED level display
◎ Power：AC110/220，50/60Hz，Power LED light

PHYSICAL DATA

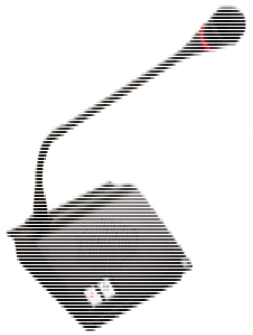
◎ Dimension and weight
Height： 100（mm）
Wide： 430（mm）
Depth： 230（mm）
Weight：10（KG）
◎Accessory：19" brackets are included
◎Surface：Black, against rusty paint

Microphone unit specifications:

◎ Type: Heart type capacitance
◎ Frequency response: 100 Hz~ 16 KHz
◎ Sensitivity: -23 dBv/PaMax.
◎ Sound Voltage: 126 dB (3% THD)
◎ S/N ratio: >20 dB (1 kHz)
◎ Dimensions: 66 mm (2.5inch)
◎ Frequency response: 120 Hz - 16 kHz
◎ Rated input: 0.5W RMS
◎ Voltage: DC12~18V
◎ Connections: DIN8 — DIN8（Y Type）
◎ Earphone/REC plug:3.5Ø，stereo

Appearance:

EDC 1011 & EDC1012



◎ Base dimensions: 140 x 48 x 150mm (W x H x D)
◎ Mounting: Table-top
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.82kg (Including Mic)

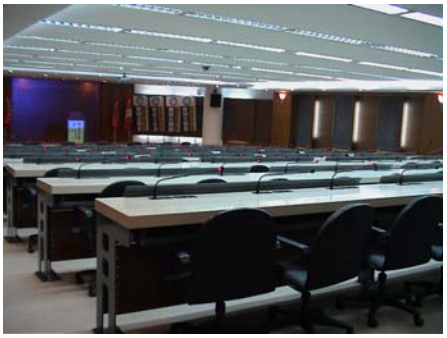
EDC 1021 & EDC1022

◎ Base dimensions: 220 x 92 x 50mm (W x H x D)
◎ Mounting: Flush-mounted type
◎ Hole size: 200 x 85 x 50mm (W x H x D)
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.6kg (Including Mic)

EDC 1023 & EDC1024

◎ Base dimensions: 146 x 62 x 110mm (W x H x D)
◎ Mounting: Flush-mounted type
◎ Hole size: 125 x 50 x 110mm (W x H x D)
◎ Microphone length: 48 cm (length)
◎ Net Weight: 0.35kg (Including Mic)

Optional
Microphone
EDC10xx Chairman or Delegate's unit will come along with standard 43/48cm microphone. BXB provide various microphone lengths for customer's requirement such as 43, 48, 56cm and longest is 70cm.



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